



PAKRI

Smart Industrial City

Enn Laansoo, Jr. (MBA)

co-founder, CEO

*PAKRI Smart Industrial City
PAKRI Science and Industrial Park
PAKRI Smart Grid*



WHO WE ARE?



UNIQUE SYNERGY





PAKRI

Science & Industrial Park

2007

Tehnopol



2003

2010

Energy and environmental technology (GREENTECH)

PPP- Private Public Partnership

14 greentech manufacturing clients
30 greentech business service clients

OUR MAIN FOCUSES IN GREENTECH

1. Energy in housing

smart house

smart city

construction material testing and R&D

2. Renewable energy

wind energy

solar energy

thermal energy

biomass energy

technology certification

3. Smart grid

renewable energy grid integration

4. Energy storing

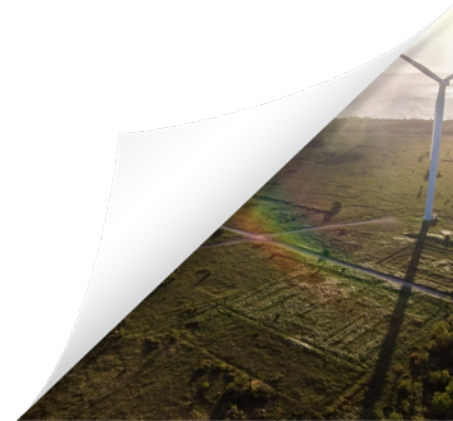
green fuel

5. Electric vehicles

charging systems

bikes and cars

6. Server parks



PAKRI SMART INDUSTRIAL CITY'S VISION FOR 2020:

Northern-European largest
privately owned smart industrial city
and the region's leading
greentech sector competence center



PAKRI'S LOCATION, PHYSICAL ENVIRONMENT



45km FROM TALLINN

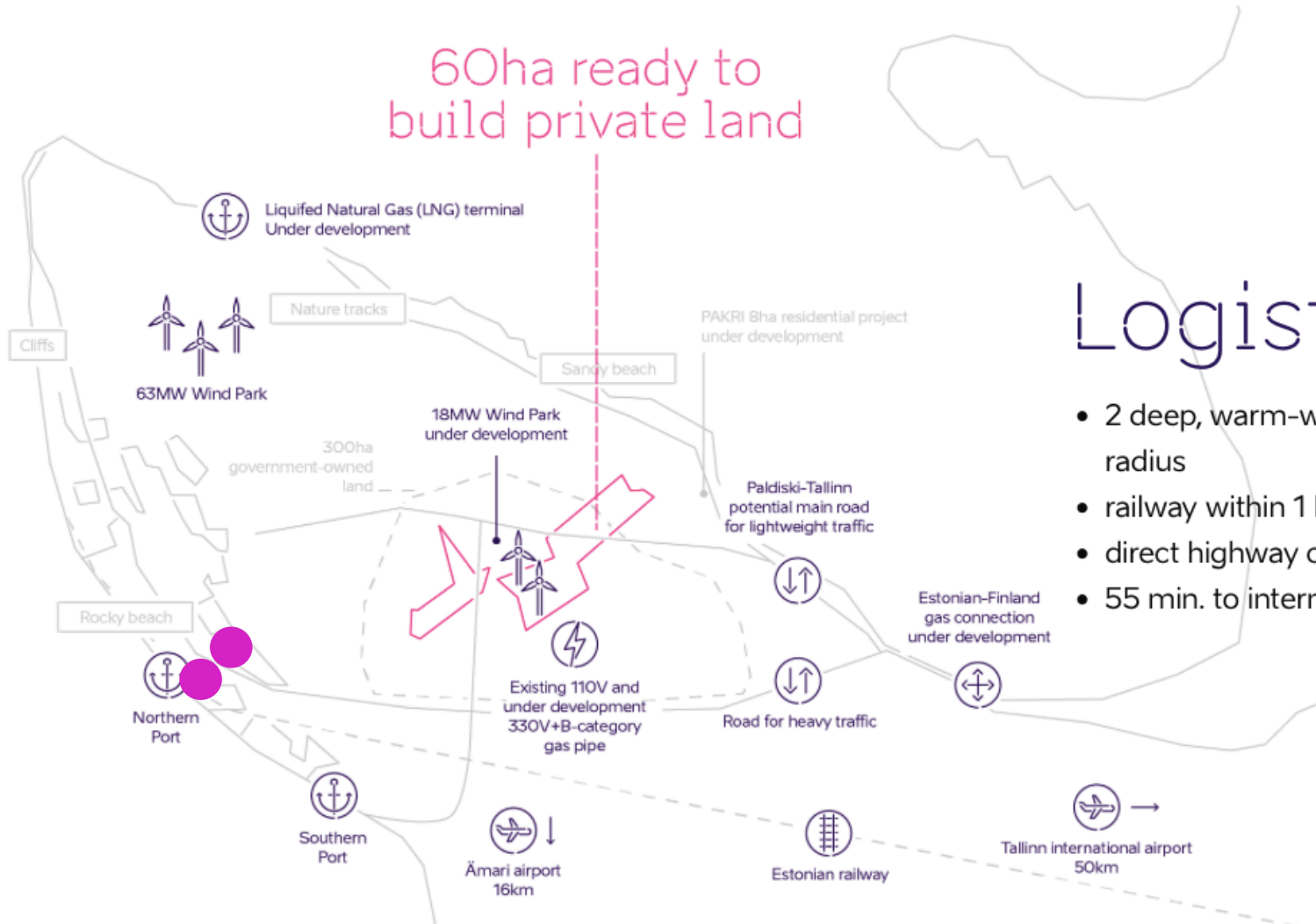
150km FROM HELSINKI

400km FROM STOCKHOLM, RIGA, ST.PETERBURG



VERY GOOD GEOGRAPHICAL AND LOGISTICAL LOCATION

60ha ready to build private land



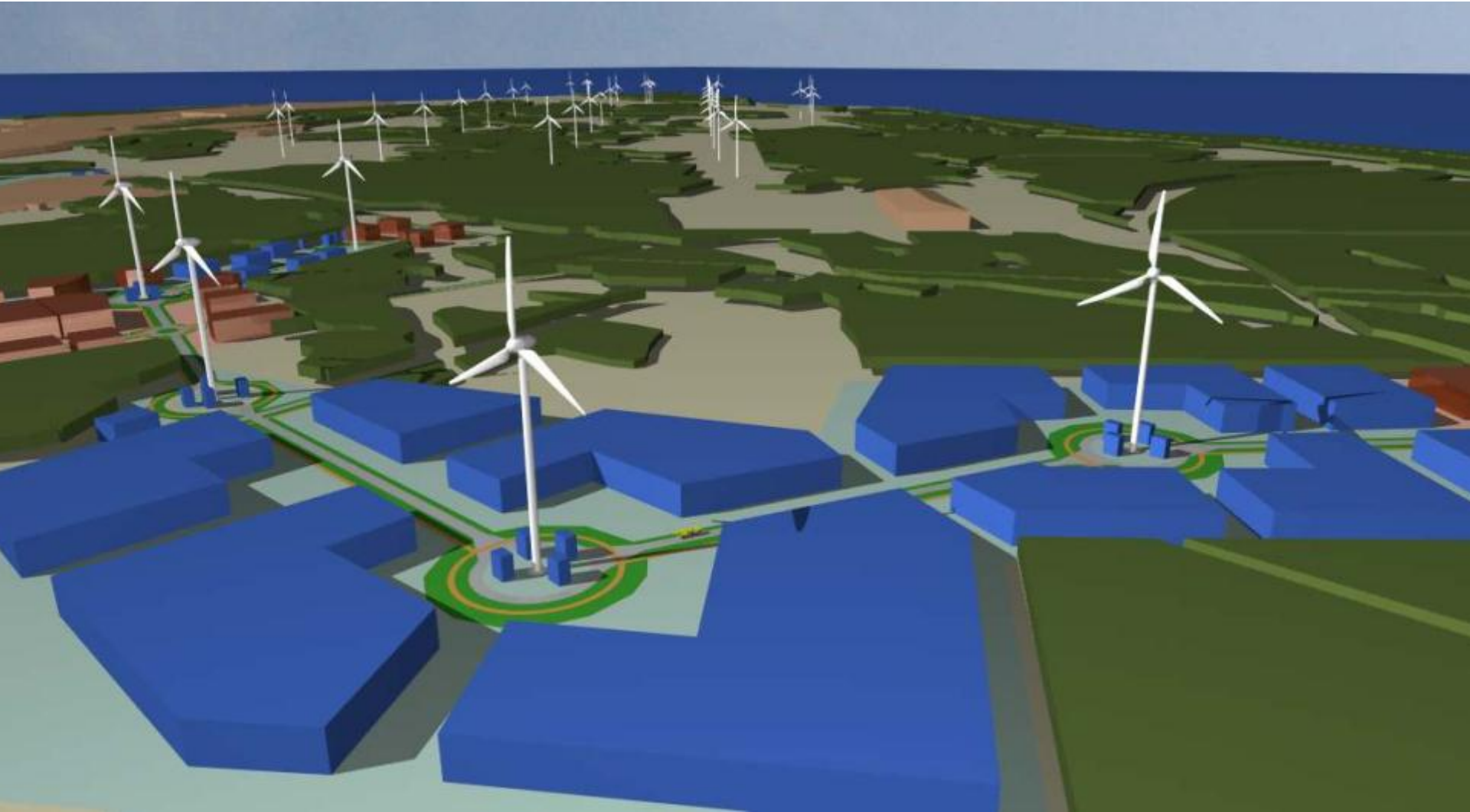
Logistics

- 2 deep, warm-water ports within a 2 km radius
- railway within 1 km
- direct highway connection
- 55 min. to international airport

UNIQUE 60HA SMART ENVIRONMENT FOR INDUSTRIAL COMPANIES AND LARGE SCALE TESTING



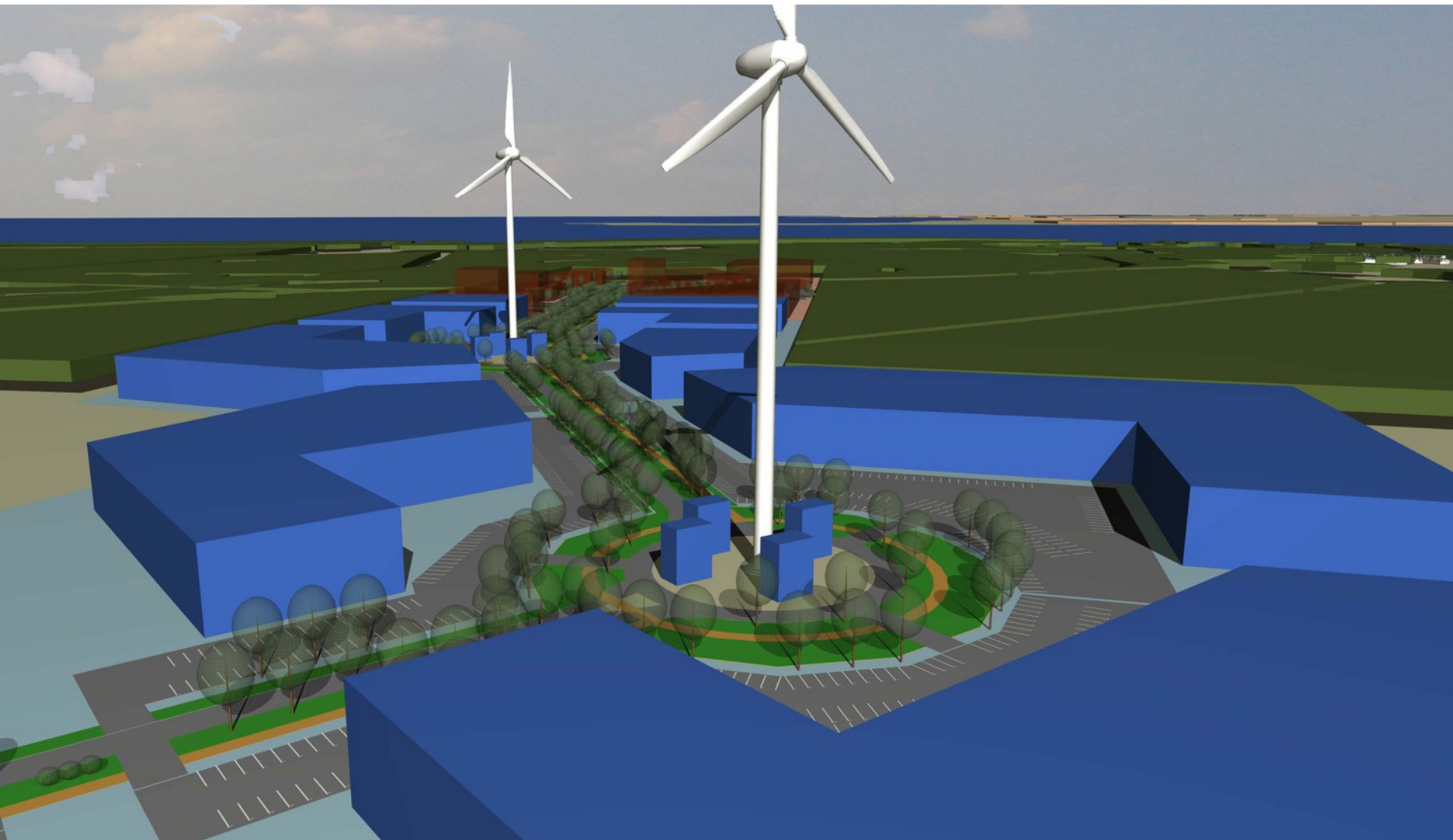
400 000M² BUILDING'S FOOTPRINT
ENERGY EFFICIENT SMART INDUSTRIAL BUILDINGS



green working environment

- Clean nature increases worker productivity
- Leisure sites and activities for worker breaks
 - Locally-grown organic food
 - Promotion of recycling
 - Industrial park community activities
- 8ha and 500-citizen residential project for PAKRI workers under development

LOCAL RENEWABLE ENERGY PRODUCTION AND GRID



opportunity to control 100%
of your energy price

Own 75MW renewable power network with smart grid enabling total control of energy price.

energy



Wind 63MW running
18MW under development



Solar 6MW
building rights



Biomass chp 50MW
building rights



Ground heating
building rights



LNG terminal
under development



Seawater for cooling
under development

STEPS TO BECOME INTELLIGENT AND ENERGY EFFICIENT



EXISTING BUILDING COMPLEXES

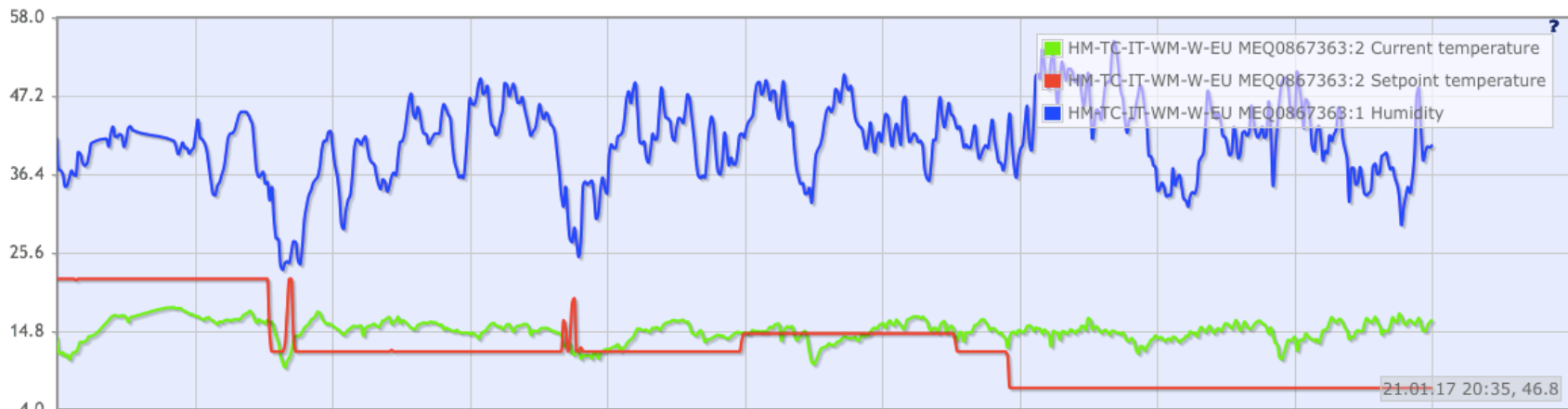


KIVI 12

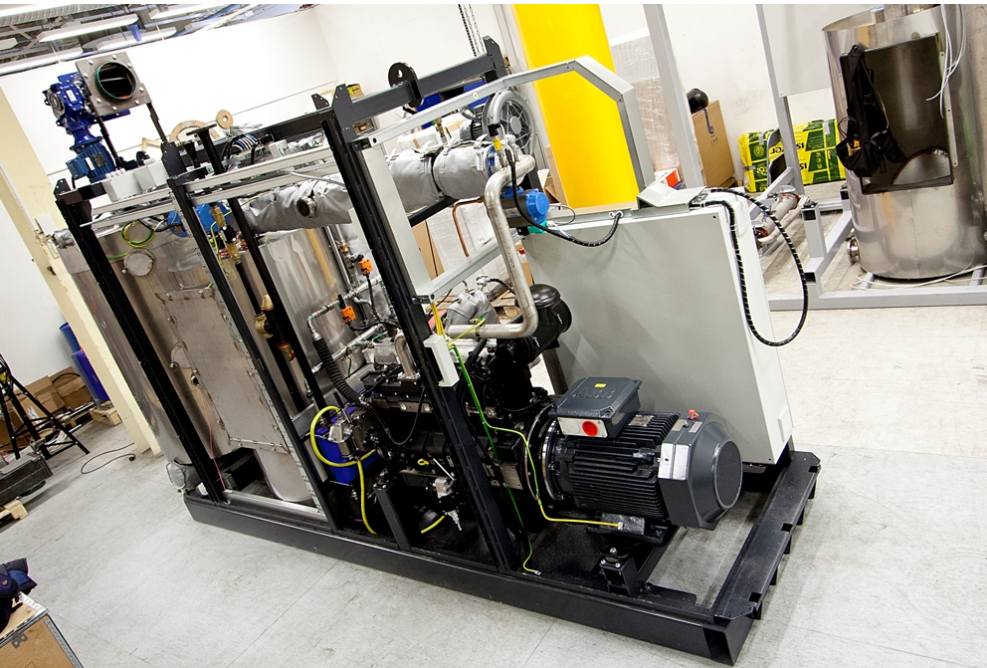
2012A, 5500M², 20-1200M²



ROOM BASED HEATING CONTROL SYSTEM (-30%) 100% HEAT FROM RENEWABLES



BIOMASS CHP (UNDER CONSTRUCTION) (100% GREEN ELECTRICITY AND HEAT)



KIVI 2

2014, 5000M², 200-1700M²



100% LED
(30-40% SAVING FROM LIGHTS)



SOLAR HEATING AND VENTILATION PANELS

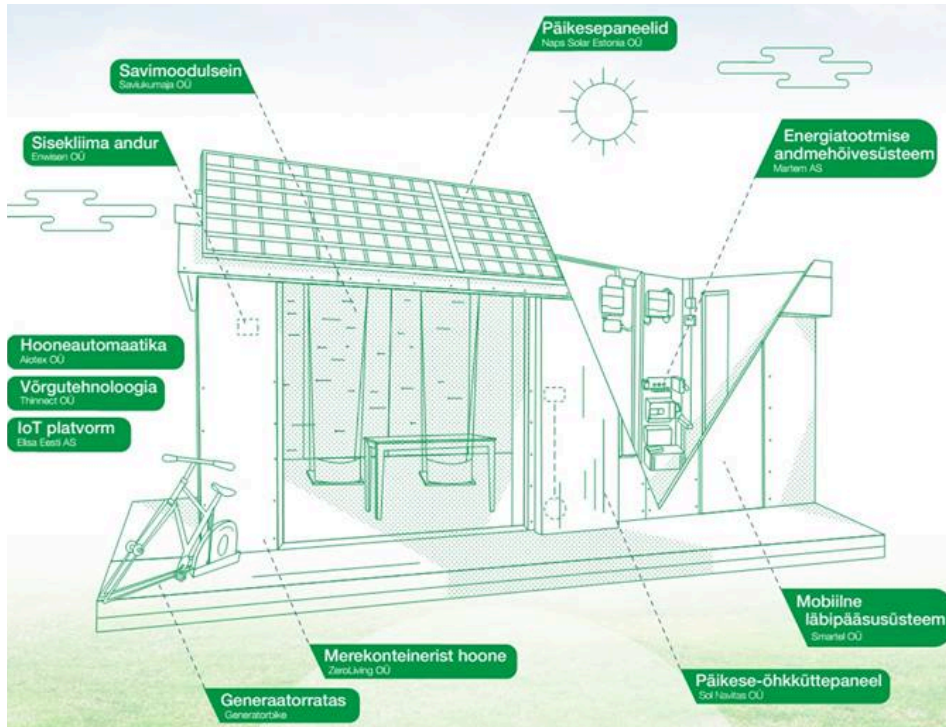


FUTURE OF KIVI 2

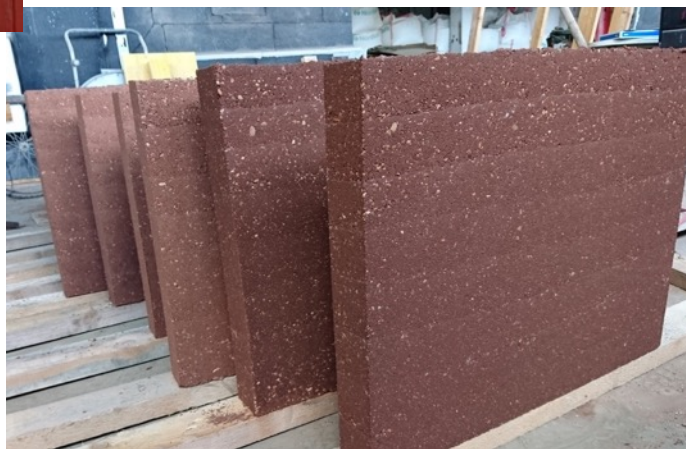
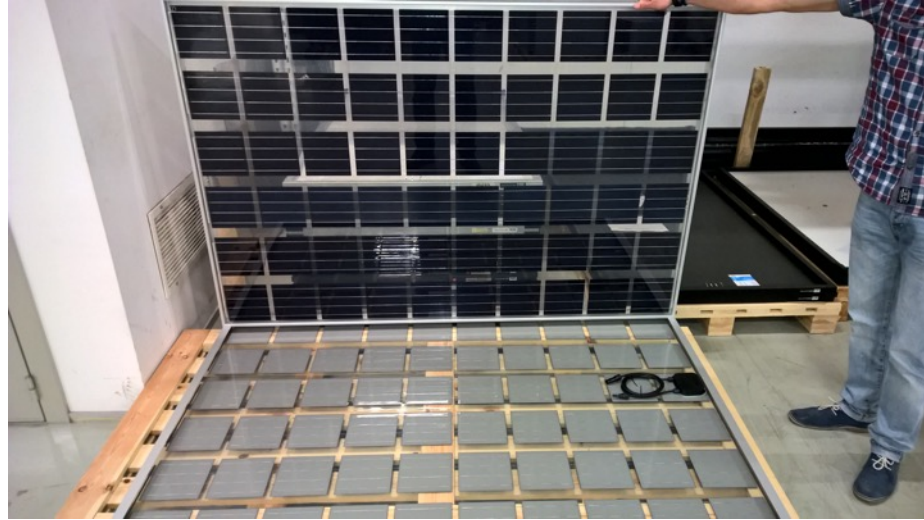


GREENROOM

(AUTONOMOUS DEMO, REFERENCE AND MEETING ROOM)



GREENROOM



KRUUNU OÜ

Wooden building elements
www.kruunu.fi



MY!WIND

5KW turbine, www.mywind.ee



my!Wind
WIND POWER IS FOR YOU

TUGE ENERGIA

2,5KW, 10KW, AND 50KW (under development) wind turbines

www.tuge.ee



GOLIATH WIND

3,3MW next generation wind turbine

www.goliath.ee



SOL NAVITAS

Solar heating and ventilation panel

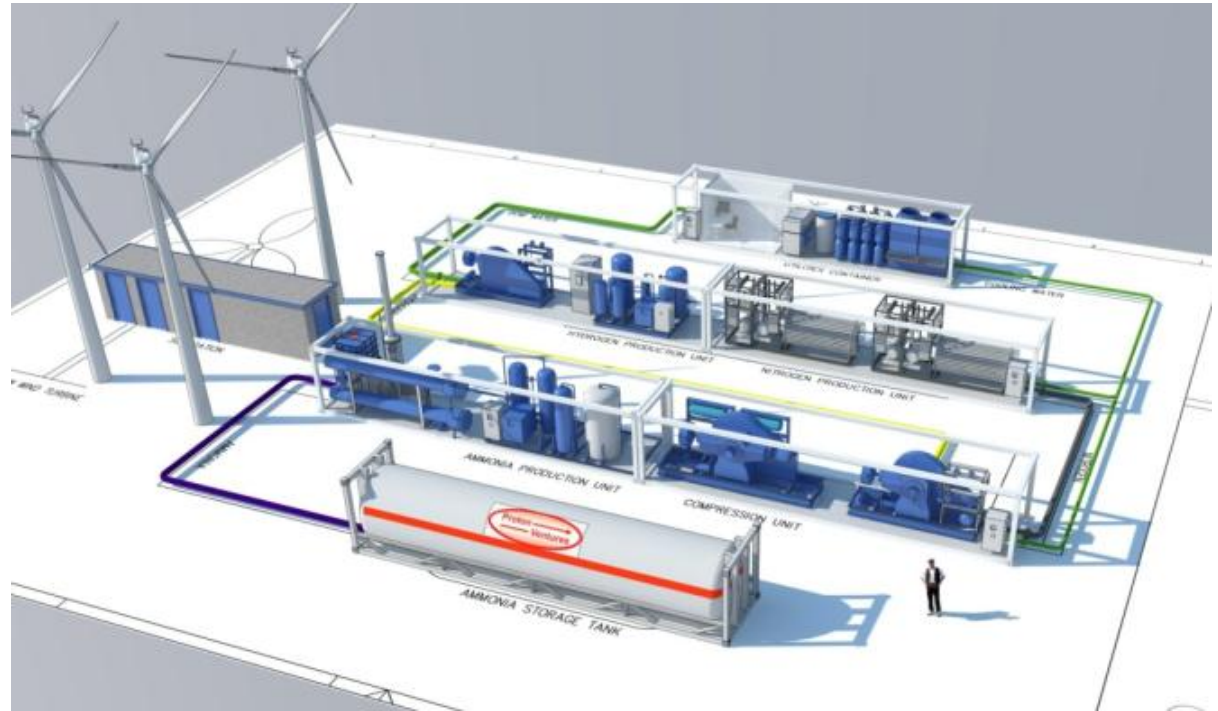
www.solnavitas.eu



PROTON VENTURES

Energy storing in the form of liquid gas (NH₃)

www.protonventures.com



ZEROLIVING

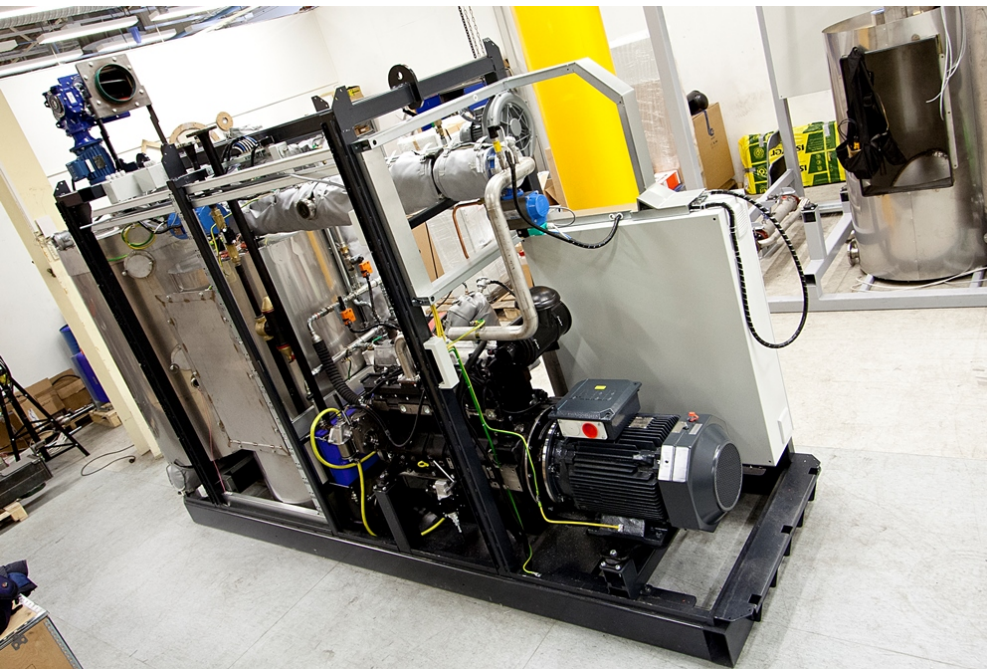
Energy efficient modular houses from used sea containers
www.zeroliving.ee



GREEN FUEL ENERGY

Biomass CHP

www.gfe.ee



FIRST RESPONSIBLE INDUSTRIAL PARK IN ESTONIA



**RESPONSIBLE
BUSINESS INDEX**
SILVER LEVEL 2017



PAKRI SMART INDUSTRIAL CITY AND TESLA GIGAFACTORY



PAKRI Smart Industrial City welcomes the Tesla Gigafactory.

The smartest location for industrial companies in the heart of Northern Europe.

See: www.teslacountry.com

Thank you!

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PAKRI Science & Industrial Park
PAKRI Smart Grid

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PAKRI

Science & Industrial Park